ABSTRACT

Disclosed is a method of preparing Tricholoma matsutakeinfected young pine trees by coculturing aseptic seedlings of a 5 pine tree with a T. matsutake isolate, comprising the steps of liquid-culturing fruit bodies of naturally occurring matsutake Broth, (Potatto Dextrose mushrooms in PDB isolated from the matsutake KBFERI 20T05 T. inoculating cultured fruit bodies; placing mixed soil of perlite sphagnum peatmoss and K-liquid medium onto the inoculated fungus; and planting aseptic seedlings obtained by aseptically germinating pine seeds into the mixed soil, and then culturing the pine seedlings with the T. matsutake isolate to allow ectomycorrhiza formation on the fine roots of the pine 15 seedlings. The method of the present invention is advantageous in terms of giving objectivity for the fungal inoculum by employing as an inoculum a fungus having DNA homology with the conventionally known T. matsutake, and of making it possible to mass produce T. matsutake-infected pine trees throughout the Year.

20